

VHF/UHF Amplified Antenna

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Your RadioShack VHF/UHF Amplified Antenna provides excellent reception of VHF and UHF broadcast TV channels in most viewing locations. The antenna's supplied power injector helps you boost the signal through a long coaxial cable for better reception. You can connect the antenna either directly to your TV or to your direct-to-home satellite system. The antenna's compact modern styling blends well with the decor of almost any home, and you can install it in a variety of places such as your attic, loft, or garage. The antenna's UV-protected housing is made of impact-resistant filled copolymer, making the exterior resistant to weathering and color change. The antenna's built-in fixed FM trap helps prevent strong FM stations from interfering with TV Channels 2–13.

IMPORTANT SAFETY PRECAUTIONS

Many do-it-yourself and professional antenna installers are injured or killed each year by electric shock. Many power wires are within 20 to 25 feet of the ground and could easily be touched by an assembled antenna or cable. Touching the overhead wires with any part of the antenna is the same as touching the wires with your bare hand. Contacting an electrical wire almost always results in a very serious shock.

WARNING! When you install an outdoor antenna, use extreme caution. If the antenna starts to fall, let it go! It could contact overhead power lines. If the antenna touches the power line, contact with the antenna, mast, cable, or guy wires can cause electrocution and death. Call the power company to remove the antenna. Do not attempt to remove it yourself!

To avoid electric shock, please read and follow these important safety precautions:

- Be sure to select an antenna site well away from all overhead wires.
- Do not try to guess which overhead wires carry high voltage. Check with the power company.
- If you notice anything making contact with the overhead wires, call the power company to have it removed safely.
- Do not run the antenna's cable over power wires.
- Get help from a qualified professional when removing the old antenna if there is any doubt of clearing overhead wires.
- Never install an antenna by yourself. Be sure to have at least two people available for help, if needed.
- Never install the antenna when it is windy.

BEFORE YOU BEGIN

Be sure to remove these items before you store or dispose of the packing material.

- Antenna (1)
- Outside diplexer (1)
- Inside diplexer (1)
- 1¹/₄-inch screws (3)
- AC adapter/power injector (1)

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You also need the following items, available at your local RadioShack store:

- 75-ohm coaxial cable RG-6/U (such as Cat. No. 278-1316)
- Sealant tape (such as Cat. No. 278-1645)

Depending upon your audio/video system setup, you might need additional cables or adapters.

Coaxial Cable Installation Precautions

- Do not bend coaxial cable (RG-6/U) into less than a 3-inch radius. Tighter bends can cause shorts and change the cable's impedance.
- Do not install coaxial cable where it will have a pulling tension of greater than 50 pounds. Leave no tension on the cable after installing it.
- Use only round-headed staples. Any clamps or securing devices used with coaxial cable should grip the cable evenly about the circumference without crushing the cable. Flat staples can damage coaxial cable.
- Do not expose coaxial cable to a temperature greater than 176°F (80°C). Keep the cable away from heating vents and water heaters.
- Do not install coaxial cable where it will be crushed, stuffed, wedged, or pinched.
- The cable jacket withstands most outdoor environments. However, you must seal connections and splices against water entry.

MOUNTING THE ANTENNA

You can mount your antenna indoors or outdoors on just about any flat surface. For the best results, mount the antenna horizontally as high as possible away from trees or other obstructions. (Higher frequencies are noticeably affected by obstructions.) Make sure the front of the antenna faces the general direction of the nearest TV station's broadcasting antenna.

Important: Do not mount the antenna on any metal surface such as aluminum siding. This greatly reduces the antenna's ability to receive signals.

Outdoor Mounting

1. Mark the position for the center mounting screw hole on the mounting surface.
2. In the marked location, drill a hole slightly smaller than one of the supplied 1¹/₄-inch screws.

Caution: Be careful not to drill into any objects behind the surface.

3. Thread one of the supplied screws through the antenna's center mounting hole. Then use a Phillips screwdriver to temporarily secure the antenna to the mounting surface.

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Hint: To make sure the mounting location you chose is the best place for reception of all channels, follow the steps in "Connecting the Antenna" on Page 3 then tune each of your TV's channels. If you can tune all channels, continue with Step 4 to finish mounting the antenna. If you cannot tune one or more of the channels, move the antenna to another location and try again.

4. If necessary, use a carpenter's level or other leveling device (not supplied) to make sure the antenna is horizontal. Then mark the positions for the left and right screw holes on the mounting surface.
5. In each marked location, drill a hole slightly smaller than the screw.
6. Thread the remaining supplied screws through the antenna's left and right mounting holes, then use a Phillips screwdriver to tighten all screws and attach the antenna to the mounting surface.

Indoor Mounting

You can also mount the antenna in an attic, closet, or other out-of-the way indoor location. The antenna can be mounted on a horizontal mast, closet rod, or on a short piece of mast suspended from a roof support by a 4-inch wall-mount bracket (such as Cat. No. 15-883, not supplied). Or, you can simply place the antenna on a shelf in a closet. Be sure the antenna is not in a position where it could easily fall or be damaged.

CONNECTING THE ANTENNA

You can connect your antenna directly to your TV or existing direct-to-home satellite system.

Caution: Do not connect devices such as amplifiers, splitters, combiners, or matching transformers between the power injector and the antenna. Such connections might cause a short in the amplifier's power source. If this happens, the antenna's indicator will not light and the signals to your video equipment (multiple TVs or VCRs) might be significantly degraded.

Note: If your existing antenna cable is 300-ohm cable, you must replace it with 75-ohm coaxial cable. (300-ohm cable requires a matching transformer that significantly interferes with the antenna's operation.)

Connecting the Antenna Directly to Your TV

1. Connect one end of a 75-ohm coaxial cable to the antenna's jack, then seal the connection with sealant tape.

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2. Connect the other end of the antenna's coaxial cable to **TO ANTENNA** on the power injector.

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3. Connect the cable from **TO TV** on the power injector to your TV's antenna input jack.

If your TV has screw terminals for VHF/UHF connection, connect a 75-to-300 ohm transformer (such as Cat. No. 15-1140, not supplied) between the power injector and the VHF/UHF terminals.

If your TV has a 75-ohm VHF connection and a 300-ohm UHF connection, connect a signal splitter (such as Cat. No. 15-1231, not supplied) between the power injector and the TV's VHF/UHF connections.

4. Plug the AC adapter into a standard AC outlet.

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5. To amplify the antenna's signal, set **OFF/ON** on the power injector to **ON**.

(illus)

The indicator on the antenna lights to show that:

- DC power is supplied to the antenna
- There are no shorts in the connection between the power injector and the antenna

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Connecting the Antenna to a Satellite Dish

Follow these steps to connect your antenna to your existing direct-to-home satellite dish so you can receive local signals.

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1. Connect one end of a 75-ohm coaxial cable to the antenna's jack, then seal the connection with sealant tape.
 2. Connect the other end of the coaxial cable to **ANT** on the supplied outside diplexer.
 3. Connect your satellite dish's coaxial cable to **SAT** on the outside diplexer.

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4. Connect one end of another 75-ohm coaxial cable to **SAT/TV** on the outside diplexer, then connect the other end to **TV/SAT** on the supplied inside diplexer.
5. Connect one end of another coaxial cable to **SAT** on the inside diplexer, then connect the other end to your satellite receiver's input jack.
6. Connect one end of your TV's coaxial cable to **TO ANTENNA** on the power injector, then connect the other end to **TV** on the inside diplexer.

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7. Connect **TO TV** on the power injector to your TV's antenna input jack.

If your TV has screw terminals for VHF/UHF connection, connect a 75-to-300 ohm transformer (such as Cat. No. 15-1140, not supplied) between the power injector and the VHF/UHF terminals.

If your TV has a 75-ohm VHF connection and a 300-ohm UHF connection, connect a signal splitter (such as Cat. No. 15-1231, not supplied) between the power injector and the TV's VHF/UHF connections.

8. Plug the AC adapter into a standard AC outlet.

(illus)

9. To amplify the antenna's signal, set **OFF/ON** on the power injector to **ON**.

(illus)

The indicator on the antenna lights to show that:

- DC power is supplied to the antenna
- There are no shorts in the connection between the power injector and the antenna

(illus)

TROUBLESHOOTING

If you have problems, here are some suggestions that might help. If you still have trouble, contact your local RadioShack store for assistance.

PROBLEM	POSSIBLE CAUSE	REMEDY
All or most channels are not received clearly.	The power injector is not turned on.	Set OFF/ON to ON .
	The antenna is not installed in a good location.	Move the antenna to a different location and try again.
	The coaxial cable might be broken.	Use another coaxial cable.
Some channels are not received clearly.	You might see some TV stations better with the power injector turned off.	Turn the power injector off while watching those stations.
The TV's picture has diagonal or moving lines.	The antenna might be receiving over-amplification or co-channel interference.	Turn the power injector off if it is on, or on if it is off.
The TV's picture has ghosting (double images or shadows of images)	The coaxial cable might be broken.	Use another coaxial cable.
	The antenna is not installed in a good location.	Move the antenna to a different location and try again.
	The power injector is not turned on.	Set OFF/ON to ON .

SPECIFICATIONS

Reception	VHF and UHF
Bandwidth	54–890 MHz
VHF/UHF Gain	11 dB
Output Impedance	75 Ohms
Power Injector	12 VDC
Power Supply	120 VAC AC-to-DC Adapter
Dimensions (LWD)	76 ¥ 2 1/2 ¥ 1 1/8 Inches (193.04 ¥ 6.3 ¥ 2.8 cm)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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